

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Jay K. Bass

Serial No.:

Examiner: Marianne P. Allen

Filing Date: Herewith

Group Art Unit: 1631

Title: FEATURE QUALITY IN ARRAY FABRICATION

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 processing fee under 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 50-1078 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-1078 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (*) were disclosed in Patent Application No. 09/491,527 filed 01/26/2000, now U. S. Patent No. _____, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

"Express Mail" label no. EV 262713625 US

Date of Deposit 06/30/2003

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By Elizabeth Miller
Typed Name: Elizabeth Miller

Respectfully submitted,

Jay K. Bass

By [Signature]

Gordon M. Stewart

Attorney/Agent for Applicant(s)
Reg. No. 30,528

Date: 06/30/2003

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10990629-3	
	APPLICANT	
	Jay K. Bass	
	FILING DATE	GROUP
	Her with	1631

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
	*	4,067,019	Jan. 3, 1978	Fleischer et al.
	*	4,128,841	Dec. 5, 1978	Brown et al.
	*	4,323,905	Apr. 6, 1982	Reitberger et al.
	*	4,675,696	Jun. 23, 1987	Suzuki
	*	4,872,028	Oct. 3, 1989	Lloyd
	*	5,124,720	Jun. 23, 1992	Schantz
	*	5,449,754	Sep. 12, 1995	Nishioka
	*	5,508,178	Apr. 16, 1996	Rose et al.
	*	5,508,200	Apr. 16, 1996	Tiffany et al.
	*	5,554,339	Sep. 10, 1996	Cozzette et al.

FOREIGN PATENT DOCUMENTS

	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	*	WO 93/17325	02 Sep. 1993	Mathies et al.		
	*	WO 95/25116	21 Sep. 1995	Baldeschweiler et al.		
	*	EP 0 334 546	27 Sep. 1998	Lloyd		
	*	WO 99/05308	04 Feb. 1999	Moynihan et al.		
	*	WO 00/34523	15 Jun. 2000	Baier		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	*	Budach et al., "Planar Waveguides as High-Performance Sensing Platforms for Fluorescence-Based Multiplexed Oligonucleotide Hybridization Assays", ANALYTICAL CHEMISTRY, Vol. 71, 1999 pp. 3347-3355.
	*	Marshall, A. and Hodgson, J., "DNA Chips: An Array of Possibilities", NATURE BIOTECHNOLOGY, Vol. 16, Jan. 1998, pp. 27-31.
	*	Instruction Page, "Programmable Error Connection PKE 80", RSF Elektronik, Rancho Cordova, CA, (undated).

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* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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	*	5,578,832	Nov. 26, 1996	Trulson et al.
	*	5,581,487	Dec. 3, 1996	Kelly et al.
	*	5,585,639	Dec 17, 1996	Dorsel et al.
	*	5,601,980	Feb. 11, 1997	Gordon et al.
	*	5,631,734	May 20, 1997	Stern et al.
	*	5,658,802	Aug. 19, 1997	Hayes et al.
	*	5,721,435	Feb. 24, 1998	Troll
	*	5,744,305	Apr. 28, 1998	Fodor et al.
	*	5,760,951	Jun. 2, 1998	Dixon et al.
	*	5,763,870	Jun. 9, 1998	Sadler et al.

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	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	*	WO 00/60425	12 Oct. 2000	Goldenberg et al.		
	*	GB 2 355 716	02 May 2001	Webb et al.		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	*	"Biochip Arrayer: Automated DNA Microarray Fabrication", http://www.packardinst.com/prod_serv/biochiparrayer.htm , Packard Instrument Company, 1999, 3 pp., date downloaded - 10/13/99.
	*	"Press Release: New Options Optimize Array Technology", http://www.packardinst.com/pr/pr899-2.htm , Packard Instrument Company, Aug. 1, 1999, 2 pp., date downloaded - 10/13/99.
	*	Chen, Y. et al., "Ratio-Based Decisions and the Quantitative Analysis of cDNA Microarray Images", JOURNAL OF BIOMEDICAL OPTICS, Vol. 2, No. 4, 1997, pp. 364-374.

EXAMINER	DATE CONSIDERED
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	*	5,800,992	Sep. 1, 1998	Fodor et al.
	*	5,801,970	Sep. 1, 1998	Rowland et al.
	*	5,807,522	Sep. 15, 1998	Brown et al.
	*	5,812,272	Sep. 22, 1998	King et al.
	*	5,815,593	Sep. 29, 1998	Shaum et al.
	*	5,825,483	Oct. 20, 1998	Michael et al.
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	*	5,843,655	Dec. 1, 1998	McGall
	*	5,856,174	Jan. 5, 1999	Lipshutz et al.

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		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	*	European Search Report and Annex to the European Search Report dated 31 October 2002.
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	*	5,861,242	Jan. 19, 1999	Chee et al.
	*	5,981,733	Nov. 9, 1999	Gamble et al.
	*	5,982,534	Nov. 9, 1999	Pinkel et al.
	*	5,984,470	Nov. 16, 1999	Sakino et al.
	*	6,001,309	Dec. 14, 1999	Gamble et al.
	*	6,024,925	Feb. 15, 2000	Little et al.
	*	6,045,996	Apr. 4, 2000	Cronin et al.
	*	6,140,044	Oct. 31, 2000	Besemer et al.
	*	6,232,072	May 15, 2001	Fisher
	*	6,238,862	May 29, 2001	McGall

FOREIGN PATENT DOCUMENTS

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	*	6,399,396	Jun. 4, 2002	Bass
	*	6,406,851	Jun. 18, 2002	Bass
	*	6,420,180	Jul. 16, 2002	Bass

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